

In the claims:

Cancel claims 1-31 without prejudice.

Add claim 32 as follows:

*of double pat,  
Allowed  
claim 1*

*maintain  
art  
rej.*

*A2*

-- 32. In a telephone system in which a two-wire telephone network carries telephone voice signals in a telephone voice band between a first telephone equipment and a second telephone equipment coupled to the telephone network, a method for bi-directional communication in a high frequency band of frequencies above the telephone voice band of information between a first transceiver and a second transceiver coupled to the two-wire telephone network comprising:

- accepting a first signal at the first transceiver;
- transmitting a first transmitted signal that encodes control information in the first signal from the first transceiver to the second transceiver over the two-wire telephone network in a first range of frequencies in the high frequency band;
- receiving the first transmitted signal at the second transceiver;
- providing the control information to a source of information;
- accepting at the second transceiver a second signal from the source of information;
- transmitting a second transmitted signal that encodes information in the second signal from the second transceiver to the first transceiver over the two-wire telephone network in a second range of frequencies in the high frequency band;
- preventing transmission of signals in the high frequency band from the two-wire telephone network to telephone equipment coupled to the two-wire telephone network, including preventing transmission of the second transmitted signal to the second telephone equipment;
- receiving the second transmitted signal at the first transceiver; and
- providing information in the second signal from the first transceiver to a destination of information. --